

SESSIONAL PAPER No. 38a

Glucose Agar Stick:—

Growth filiform, spreading; cream colour at centre, lighter at margins. Cloudy to half-way down the agar.

Beef Broth:—

24 hours. Clouding moderate. Sediment.

3 days. Growth heavier, slight pellicle.

5 days. Ring and pellicle.

7 days. Yellowish-green colour in upper layers.

Subsequently no change.

Dunham's Solution:—

Grown for five days at room temperature, tested with Ehrlich test, allowed to stand 20 minutes and then recorded. No Indol.

Milk:—

Fifth day. No change until the fifth day, when there is coagulation with soft curd, cheesy odor. Curd gradually becomes harder and the whey greenish in colour. Digestion takes place to about half the volume.

Litmus Milk:—

The colour is gradually bleached and in 48 hours is avellaneus.

5 days. Coagulation takes place in 5 or 6 days, a soft, fine curd which gradually digests. Blue ring at the top; separated whey is isabellinus in colour.

3 weeks. Greenish-blue colour; whey thick, curd avellaneus, odour unpleasant.

Potato:—

24 hours. Growth moderate, raised, filiform, cream-yellow in colour.

48 hours. Growth becomes dirty and ochraceous, slightly rugose. Growth gradually changes to ferrugineus in colour.

3 weeks. No change

A. 4.

A small bacillus, short, rather stout, with rounded ends. In appearance resembles A. 2. Actively motile, stains well with methylene blue, and is gram negative.

Gelatine Plates:—

24 hours. Just visible to the naked eye.

48 hours. Colonies punctiform (less than 1 mm.) white and glistening, with 3 objective they are seen to be round, with entire edges, and granular.

3 days. Colonies slightly punctiform, white, glistening, convex, capitate. With 3 objective edges entire and granular.

No further change.

Gelatine Stick:—

24 hours. Growth unifrom, line of bacteria filiform.

48 hours. Growth filiform to villous. Four gas bubbles on line of bacteria.

3 days. There is more growth. Line of bacteria villous to papillate.

10 days. Slight depression at the point of puncture may be noticed, but no liquefaction.

13 days. Liquefied area around the line of puncture.